

CONFIDENTIAL

INFORMATION FROM

REPORT

CD NO.

50X1-HUM

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF ESPIONAGE ACT 56 U. S. C. 91 AND 92, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. VIOLATION OF THIS PEN IS PROHIBITED.

SOURCE Uspekhi Khimii, Vol XVII, No 1, 1948. (FTB Per Abs 7474)

General and Inorganic Chemistry

Yu. V. Koryakin. "Pure Chemical Reagents." 2d edition, revised. Price 49 rubles. Goskhimizdat, Moscow, 1947. Guide to laboratory preparation of inorganic reagents; compared with first edition, data has been considerably revised and supplemented by new material. Approved by Ministry of Higher Education USSR as textbook for chemical VTUZ.

1 D. I. Mendeleev. "Principles of Chemistry." 13th edition. Stereotypes. Vol I and II. Price (both volumes) 70 rubles. Goskhimizdat, Moscow 1947.

1. "Collected Works of the Laboratory of the Institute of Pure Reagents - IRYA." No 19. Price 8 rubles. Goskhimizdat, Moscow, 1947. Issue of proceedings of institute contains a number of articles devoted to syntheses of particular reagents and description of their physical and chemical properties. Review of work carried out during the period 1910-1939.

Organic Chemistry

N. I. Amiantov. "Chemistry and Technology of Synthetic Dyes," Price 15 rubles. Goskhimizdat, Moscow, 1967. Textbook for chemical technical schools.

"High-Molecular Compounds." (All-Union Chemical Society imeni D. I. Mendeleev) No 5. Price 9 rubles. Goskhimizdat, Moscow, 1947. Survey of new types of synthetic polymers: (1) polychlorotylenes, (2) isoterenes, (3) acrylic resins, (4) polyethylenes, (5) silicic acid high-polymer compounds. Data of conference on physics of high polymers. Optical methods of determining molecular weight of high polymers and other problems. Reviews. Bibliography.

"High-Molecular Compounds." (All-Union Chemical Society, Leni D. I. Mandel'shteyn) No 6. Price 9 rubles. Gostkhizdat, Moscow, 1961. Devoted to theory of copolymerization, chemical and physical properties and structure of copolymers, conditions under which copolymerization takes place. Reviews

~~CONFIDENTIAL~~

[illegible]

CONFIDENTIAL

50X1-HUM

present position regarding chemistry of starch. Use of infrared spectroscopy in research in high-molecular compounds. Reviews modern methods of producing wood celluloses.

"Collection of Articles on Synthetic Resins and Plastics." (Ministry of the Chemical Industry) Price 20 rubles. Goskhimizdat, Moscow, 1947. Includes most important scientific research work carried out within the plastics industry by Ministry of Chemical Industry USSR during past 5 years. Many articles devoted to synthesis of plastics, problems of plastification and modification of plastics, investigation of physical, chemical, and mechanical properties, and description of analysis methods.

"Work of the State Order of Labor Red Banner Institute of Applied Chemistry (Leningrad)." (Ministry of Chemical Industry) No 38. Price 8 rubles. Goskhimizdat, Moscow, 1947. Describes work of Organic Synthesis Laboratory, mainly in field of chemistry and technology of processing acetylene polymers. Gives data of jubilee conference of Institute.

Physical Chemistry

A. I. Avgustsenik. "Physical Chemistry of Silicates." Price 15 rubles. Goskhimizdat, Moscow, 1947. Describes physical chemistry of silicate systems and principal oxides of these systems. As special feature, includes many practical examples. Devotes much attention to thermodynamics of silicate systems, crystal chemistry problems and kinetics of silicate formation reactions. Approved by Ministry of Higher Education USSR as textbook for VTUZY.

F. F. Vol'kensheteyn. "Electroconductivity of Semiconductors." Price 12 rubles 25 kopeks. OGIZ, Moscow-Leningrad, 1947. Monograph describes various electronic processes which occur in real crystals. Presents experimental data. Intended for wide range of readers concerned with the electrical properties of solids.

Chemical Technology

Ya. M. Braynes. "Processes and Apparatus." 3d edition, revised. Price 26 rubles. Goskhimizdat, Moscow, 1947. Textbook in chemical technology for technical schools.

N. B. Vargafik, V. A. Golutsov, N. N. Stepanenko. "Electrical Method of Determining Moisture of Petroleum Products." Price 2 rubles. Goskhimizdat, Moscow-Leningrad, 1947. Describes rapid method of determining moisture of petroleum and mazut, based on measurements of dielectric constant. Describes construction of apparatus designed for these experiments and data obtained. Book is intended for workers in scientific laboratories and industrial enterprises.

N. I. Gal'perin. "Distillation and Rectification." Price 12 rubles. Goskhimizdat, Moscow, 1947. Physics and chemistry of distillation, rectification in evaporation and condensation processes for binary and multicomponent mixtures. Describes usual laboratory and industrial equipment. Supplement contains numerous tables giving necessary physical and chemical data for calculations: boiling point at various pressures, characterization of distillation processes, specific heats and specific gravities. Recommended as practical guide for engineering technicians of the chemical industry and textbook for students specializing in chemical technology.

V. F. Gogin and L. I. Zlotin. "Low-Temperature Processing of Gaseous Gas." Price 7 rubles. Goskhimizdat, Moscow, 1947. Describes industrial method of obtaining nitrogen-hydrogen mixture by extreme freezing of gaseous gas. Touches on problems of chemical composition of the gas and its physical and chemical properties. Describes technology of process, its equipment, equipment used, and safety techniques.

"General Chemical Technology of Fuel." (General Editor P. V. Ka'tanov) Price 32 rubles. Goskhimizdat, Moscow, 1947. Describes main technological

CONFIDENTIAL

CONFIDENTIAL

50X1-HUM

processes and apparatus used for processing solid, liquid and gaseous fuel. Approved by Ministry of Higher Education USSR as textbook for chemical technology VUZY.

I. G. Povarnin and P. P. Adamanis. "Storage and Transport of Liquid Acids and Alkalis." Price 5 rubles. Goskhimizdat, Moscow, 1947. Information on properties of products transported and materials for transport equipment. Describes practical methods of dealing with liquids during loading, and treatment in case of accidents. Recommended as practical guide for workers of the chemical industry.

V. A. Lepetov. "Production of Commercial Resin Parts." Price 5 rubles. Goskhimizdat, Moscow, 1947. Describes production and testing of resin parts. Gives technical norms for their use. Intended as textbook for chemical VUZY.

Miscellaneous

Yu. I. Veyder and G. P. Duchinskiy. "Smoke Screens." Price 10 rubles. Goskhimizdat, Moscow 1947. Describes chemical and physical principles of smoke formation, chemistry of smoke-forming substances and their associated appliances. Guide intended for wide range of readers working in this field and for those serving at military academies.

P. I. Voskressenskiy. "Technique of Laboratory Work." 4th edition, revised. Price 15 rubles. Goskhimizdat, Moscow, 1947. Approved by Ministry of Higher Education USSR as textbook for VUZY.

"Proceedings of the Leningrad Order of Labor Red Banner Technological Institute imeni Leningrad Soviet." No 13. Price 9 rubles. Goskhimizdat, Moscow, 1947. Contains articles on rubber technology, catalytic phenomena, organic synthesis, and other problems.

"Proceedings of the Leningrad Order of Labor Red Banner Technological Institute imeni Leningrad Soviet." No 14. Price 9 rubles. Goskhimizdat, Moscow, 1947. Articles on mechanism of desiccation of vegetable oils and synthetic esters developed during 15 years by the staff of Chair of Lacquer and Paint Technology headed by A. Ya. Drigberg.

"Proceedings of the Moscow Order of Lenin Chemical Technology Institute imeni D. I. Mendeleev." No 11. Price 15 rubles. Goskhimizdat, Moscow, 1947. Contains short articles and reviews of work in various fields of theoretical and applied chemistry carried out by professorial and lecture staff of Institute during World War II.

"Proceedings of Scientific Research Institutes." (Ministry of Chemical Industry) Price 15 rubles. Goskhimizdat, Moscow, 1947. Gives brief reviews of work done by institutes of Ministry of Chemical Industry USSR in 1944.

- E N D -

- 3 -

CONFIDENTIAL